

09/331930

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	435	69.1

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6436670

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Fig. 1A

660E90-0E6TEE60

APPROVED	O.G. FIG.	
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DRAFTSMAN	435	69.1

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660850-0867EE60

50 60

K I V L K K W Y T I F K D H V S L G D Y

AAGATCGTTCTTAAAGTGTACACGATTTTAAAGGACCATGTATCTCTGGGAGATTAT

TTCTAGCAAGAAATTTTCACCATGTGCTAAATAATTCCTGGTACATAGAGACCCCTCTAATA

70

E I H D G M N L E L Y Y Q STOP

GAAATCCACGATGGGATGAACCTGGAGCTTTATTACCAGTAGAGGGGAATTCCCTCCACC

CTTAGGTGCTACCCCTACTTGGACCTCGAAATAATGGTCATCTCCCCCTTAAGGAGGTGG

TTGCCCAACCTTGCTTTCCTCTCCCATGGCTCATTTAACACTGTTGTAGATGCTCATTTT

AACGGGTGGAAACGAAAGGAGAGGGTACCGAGTAAATTGTGACAAACATCTACGAGTAAAAA

AACAAATTCACATGAATAAAACTTTGATGCTGCAAAAAAAA 3'

TTGTTAAGTGACT 5'

Fig. 1A (i)

660E90" DEBTEED

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DRAFTSMAN	435	69-1

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50 60

K I V L K K W Y T I F K D H V S L G D Y

AAGATCGTTCTTAAAGTGGTACACGATTTTAAAGGACCATGTATCTCTGGGAGATTAT

TTCTAGCAAGAAATTTTCACCATGTGTCTAAATAATTCCTGGTACATAGAGACCCCTCTAATA

70

E I H D G M N L E L Y Y Q STOP

GAAATCCAGATGGGATGAACCTGGAGCTTTATTACCAGTAGAGGGGAATTCCTCCACC

CTTAGGTGCTACCCCTACTTGGACCTCGAAATAATGGTCATCTCCCCCTTAAGGAGGTGG

TTGCCCAACCTTGCTTTCCTCTCCCATGGCTCATTTAACACTGTTGTAGATGCTCATTTT

AACGGGTTGGAACGAAGAGAGGGTACCGAGTAAATTTGTGACAAACATCTACGAGTAAAAA

AACAATTCACATGAATAAAAACTTTGATGCTGCAAAAAAAA 3'

TTGTTAAGTGCTACT 5'

Fig. 1A (ii)

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ATG ATC GAG GTT GTT TGC AAC GAC CGT CTG GGG AAA AAG GTC CNC 45
Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa
1 5 10 15

GTT AAA TGC AAC ACG GAT GAT ACC ATC GGG GAC CTT AAG AAG CTG 90
Val Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu
20 25 30

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ATT GCA GCC TAA

Ile Ala Ala *

Fig.1B

660E90-DE6TFE60

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DRAFTSMAN	435	691

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660E90-0E6TEE60

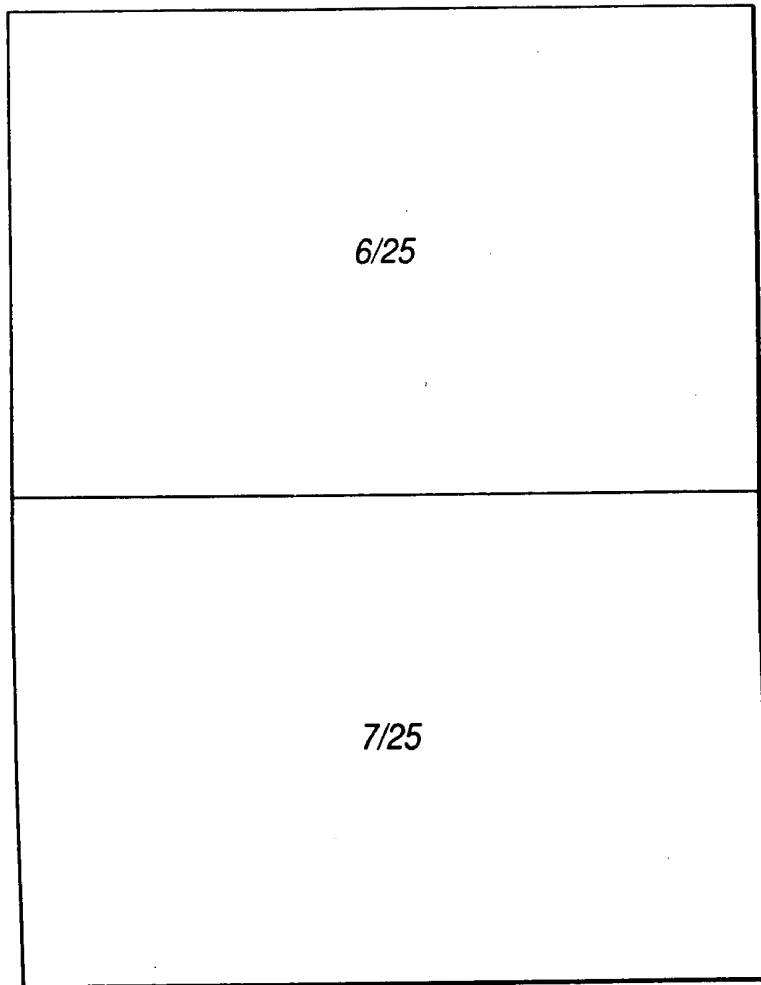


Fig.2A

APPROVED	O.G. FIG.	
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660E90" DELETED

AMINO ACID ALIGNMENTS	10	20	30	40	50
A.	*	*	*	*	*
Beacon	MIEVVCNDRLGKKVRVVCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTI				
Human	MIEVVCNDRLGKKVRVVCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTI				
Mouse	MIEVVCNDRLGKKVRVVCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTI				
C.elegans	MIEITVNDRLGKKVRIKCNPSDTIGDLKKLIAAQTGTRWEKIVLKKWYTI				
F.hepatica	DRLGKKVRVVCNPTDKVGDLLKLLIAAQTGTAPERIVLKKWYTI				
Rice	MIEVVCNDRLGKKVRVVCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTI				
S.cerev	MIEVVCNDRLGKKVRVVCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTI				

Fig.2A (i)

APPROVED	O.G. FIG.	
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660E90" DE6TEE60

	60	70
	*	*
Beacon	FKDHVSLGDYEIHDGMNLELYYQ	
Human	FKDHVSLGDYEIHDGMNLELYYQ	
Mouse	FKDHVSLGDYEIHDGMNLELYYQ	
C.elegans	YKDHIITLMDYEIHEGFNFELYQ	
F.hepatica	YKDHVTLRDYEINDGMNLELYYQ	
Rice	YKDHIITLADYEIHDGMGLELYYN	
S.cerev	LKDHICLEDYEVHDQTNLELYYL	

percentage	homologies
Human	73/73 = 100%
Mouse	73/73 = 100%
C.elegans	59/73 = 81%
F.hepatica	54/66 = 82%
Rice	58/73 = 79%
S.cerev	46/73 = 63%

Fig.2A (ii)

APPROVED	O.G. FIG.	
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Fig.2B

660E90" 0E6FE60

APPROVED	O.G. FIG.	
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Ubiquitin-like protein 8 (A. thaliana)

	10	20	30	40	50
	*	*	*	*	*
Beacon	MIEVVCNDRLGKKVRVKCNTDDTIGDLKKLIAAQGTGRWNKIVLKKWYTI				
	+ ++ + ++ + + ++ + +				
A. thaliana	GKTIILEVSSDTIANVKEKIQVKEGIKPDQQQLIFFGQQ				

Beacon FKDHVSLGDYEIHDGMNLELYYQ

+| +| +| +| +| +| +| +|

A. thaliana LEDGVTGLGDYDIHKKSTLYL

Amino acid homology 19/60 = 32%

Positives (similar amino acids) 34/60 = 57%

Fig.2B (ii)

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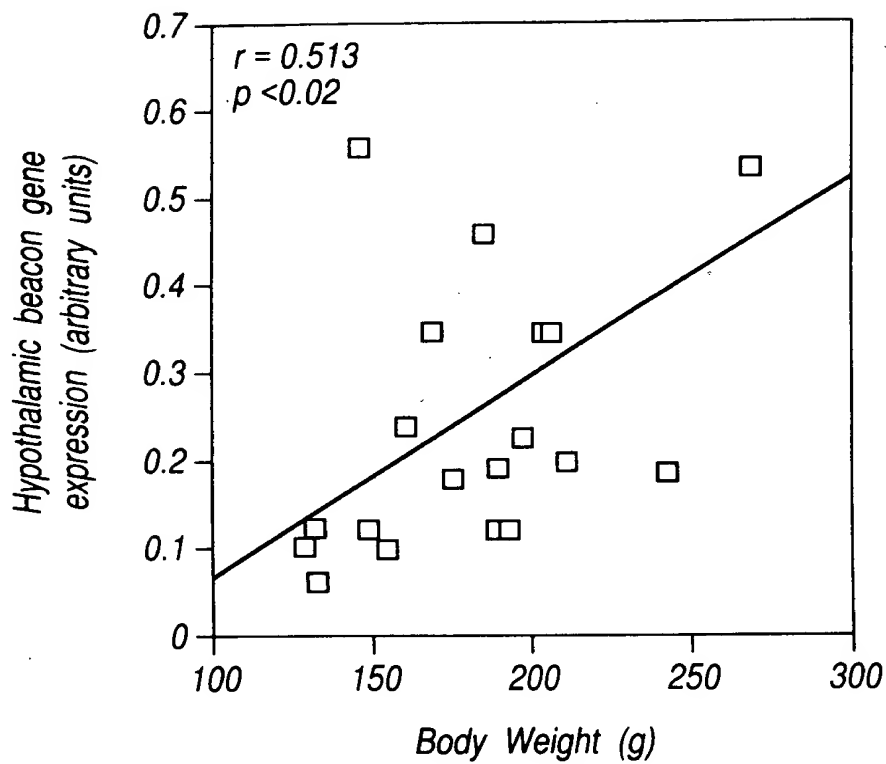


Fig.3A

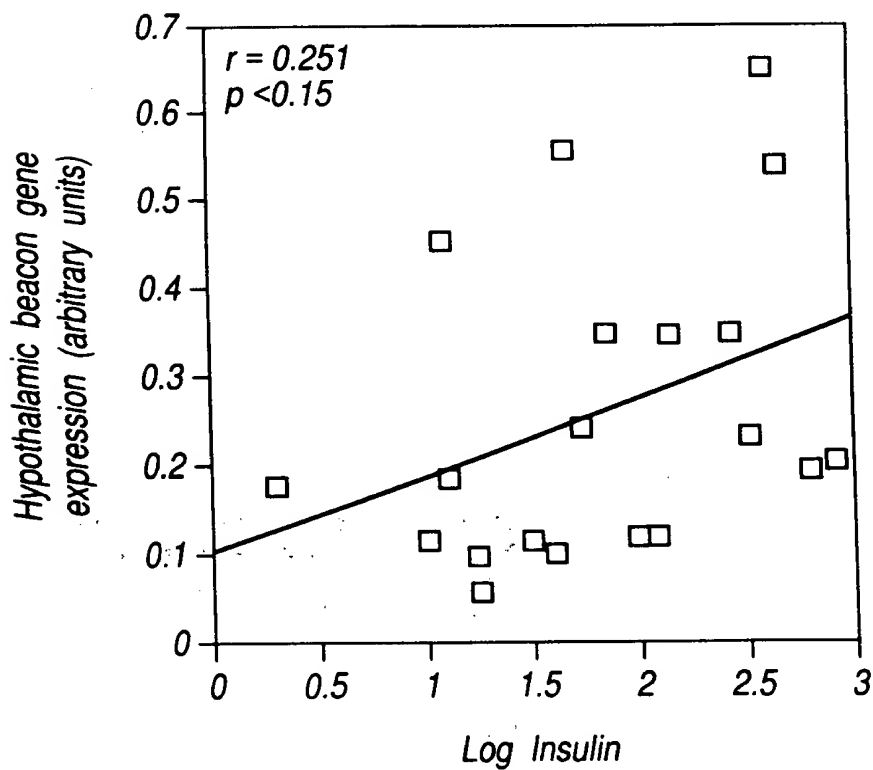


Fig.3B

660E90-DEBTE60

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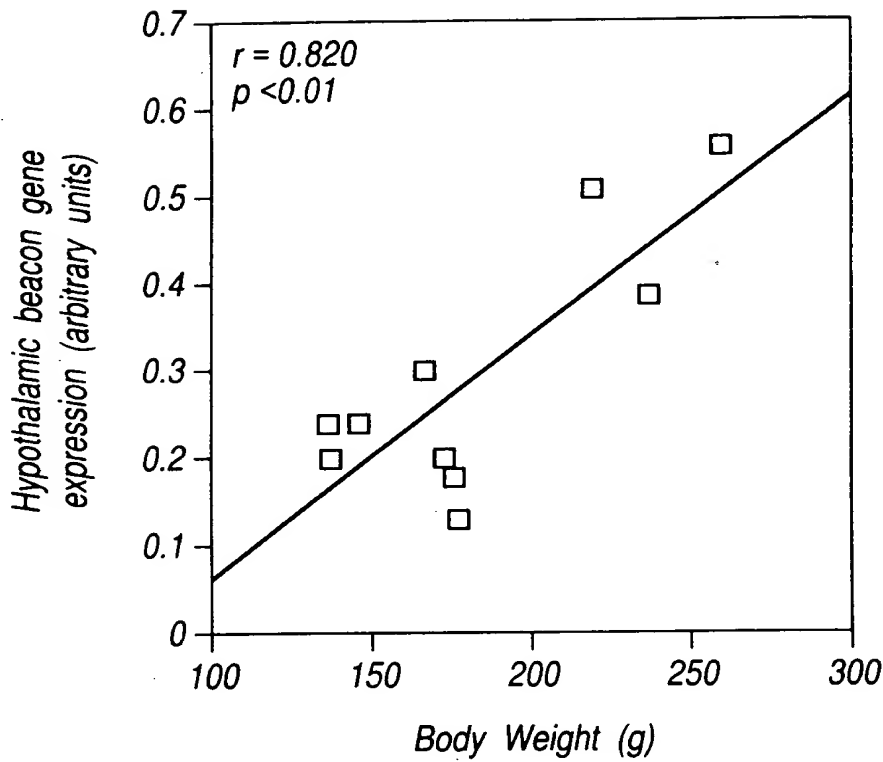


Fig.4A

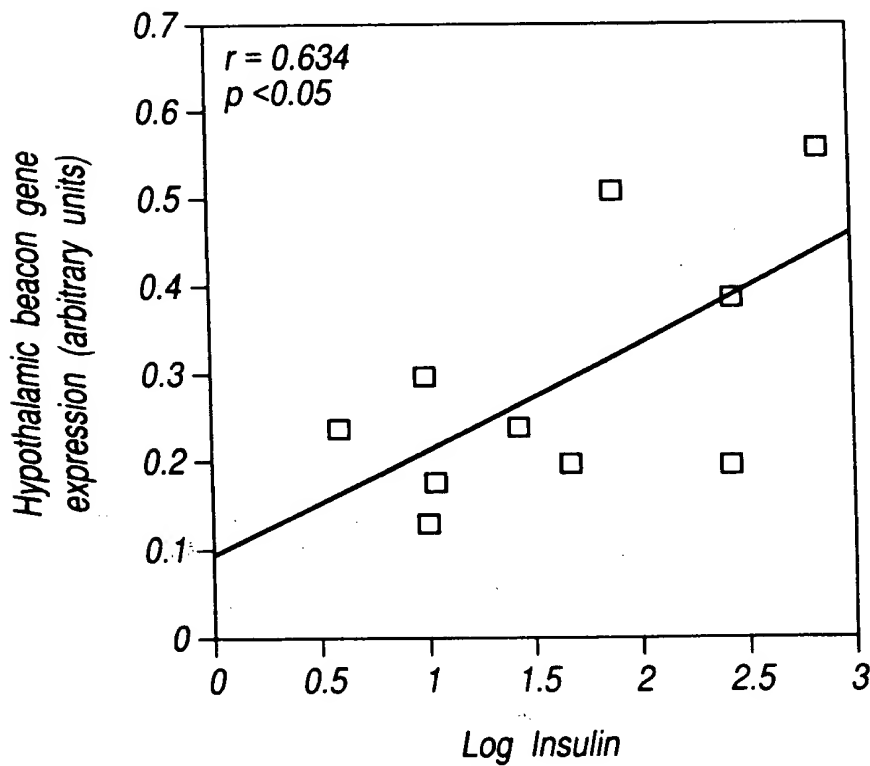


Fig.4B

APPROVED	O.G. FIG.	
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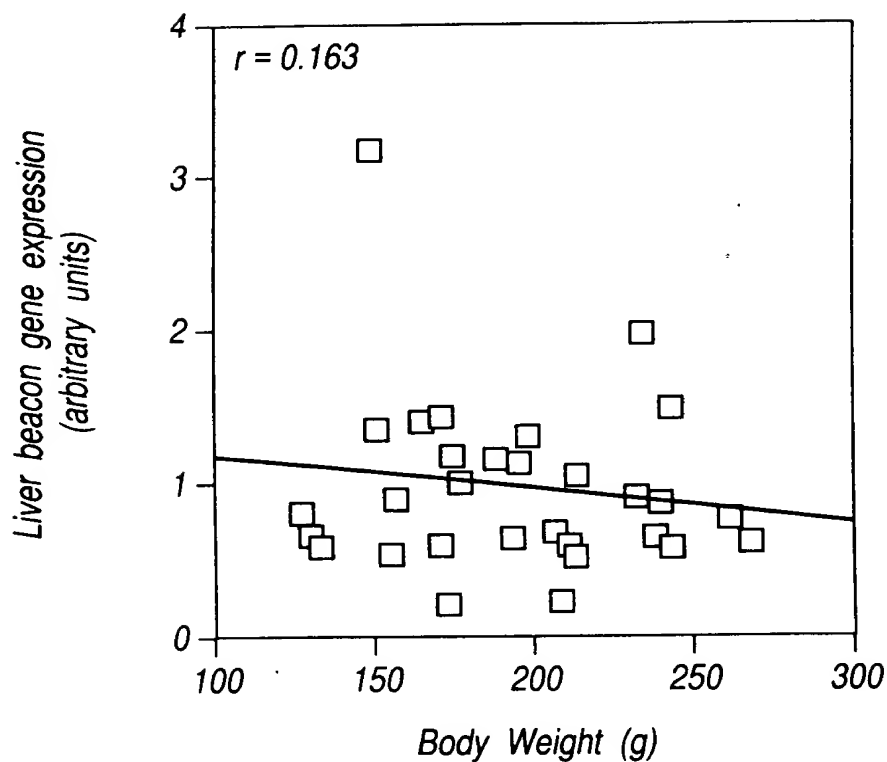


Fig.5C

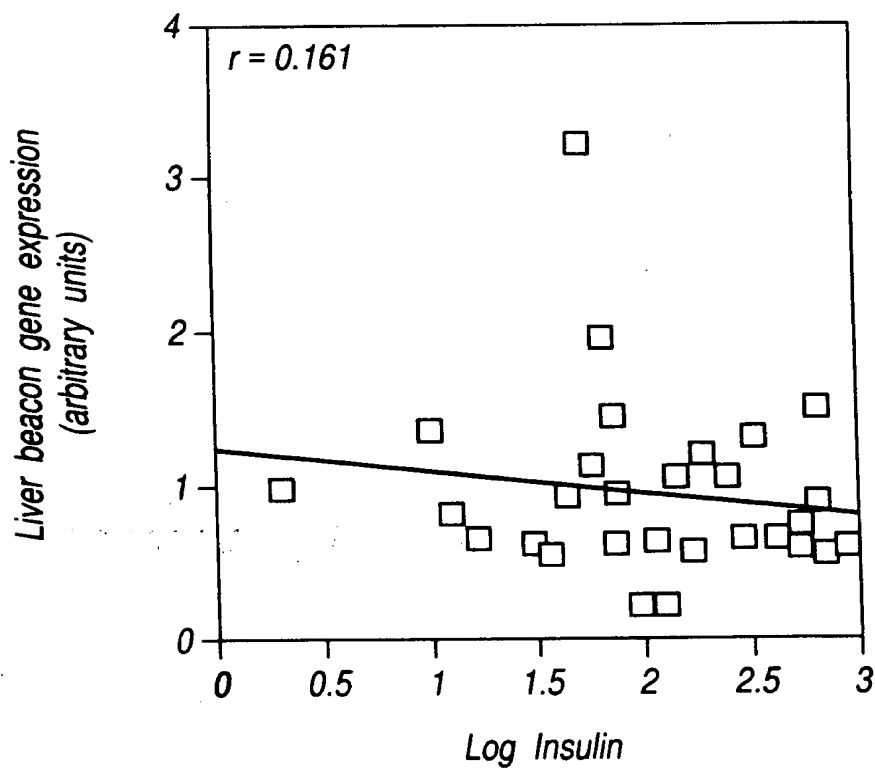


Fig.5D

660290-026T2260

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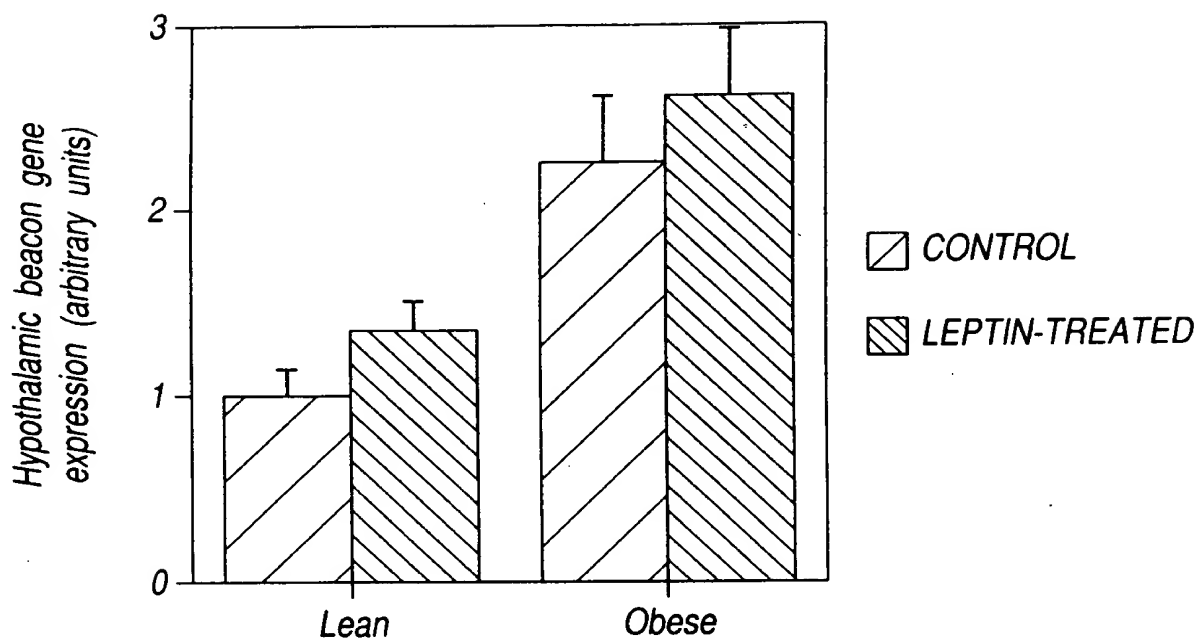


Fig.6

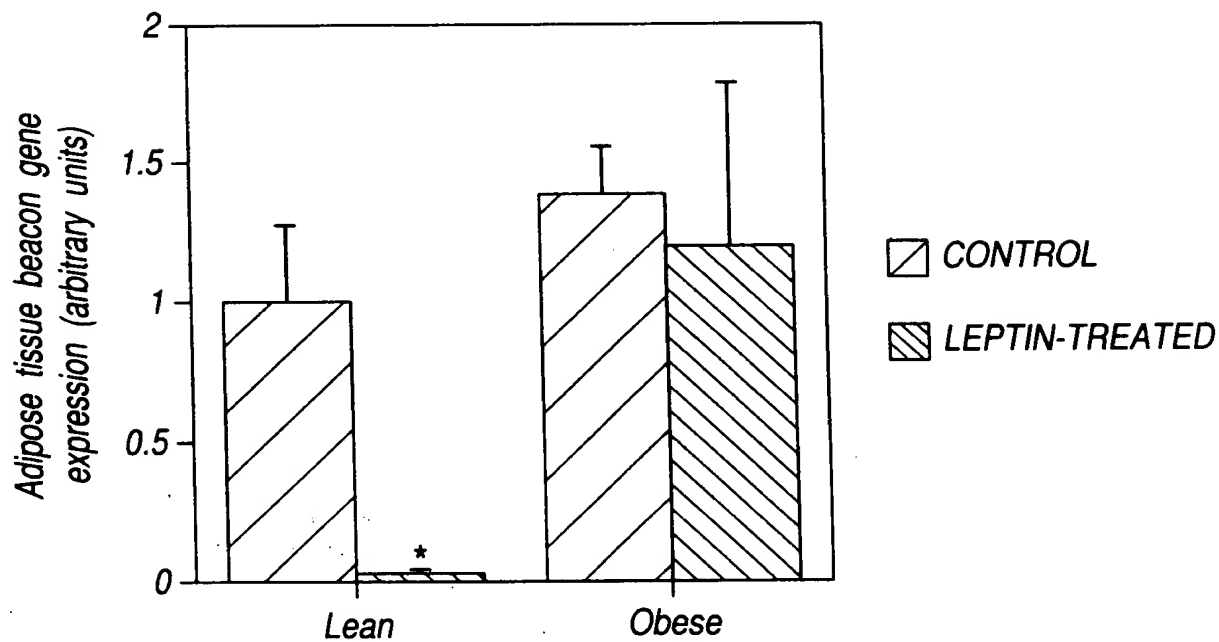


Fig.7

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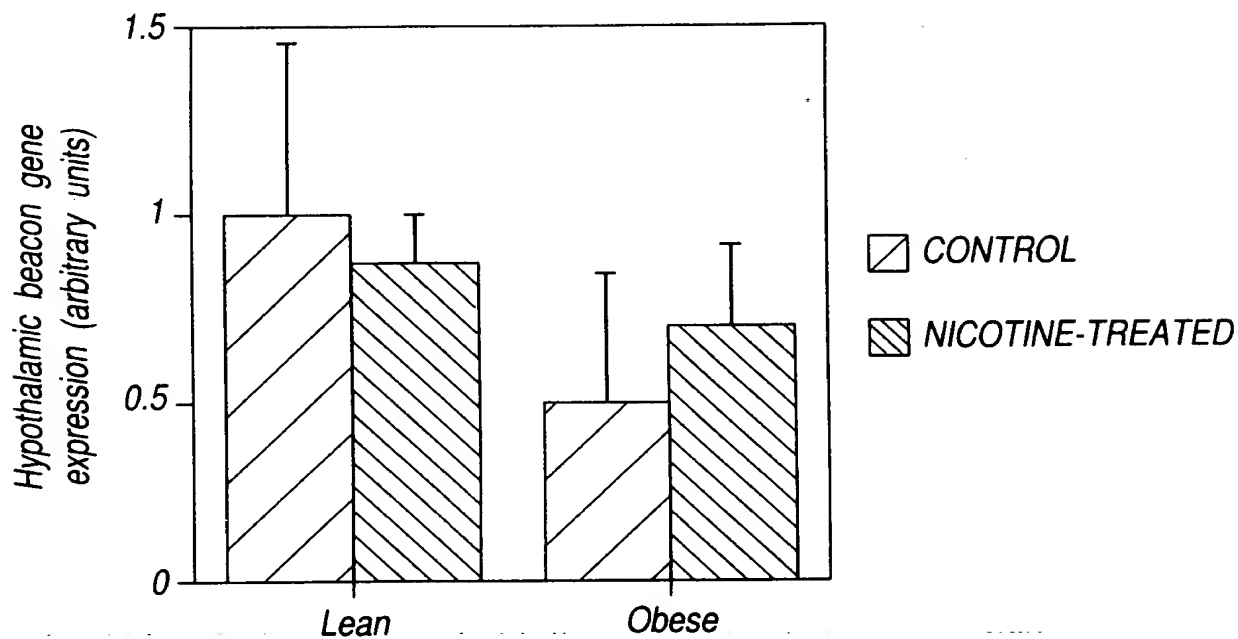


Fig. 8A

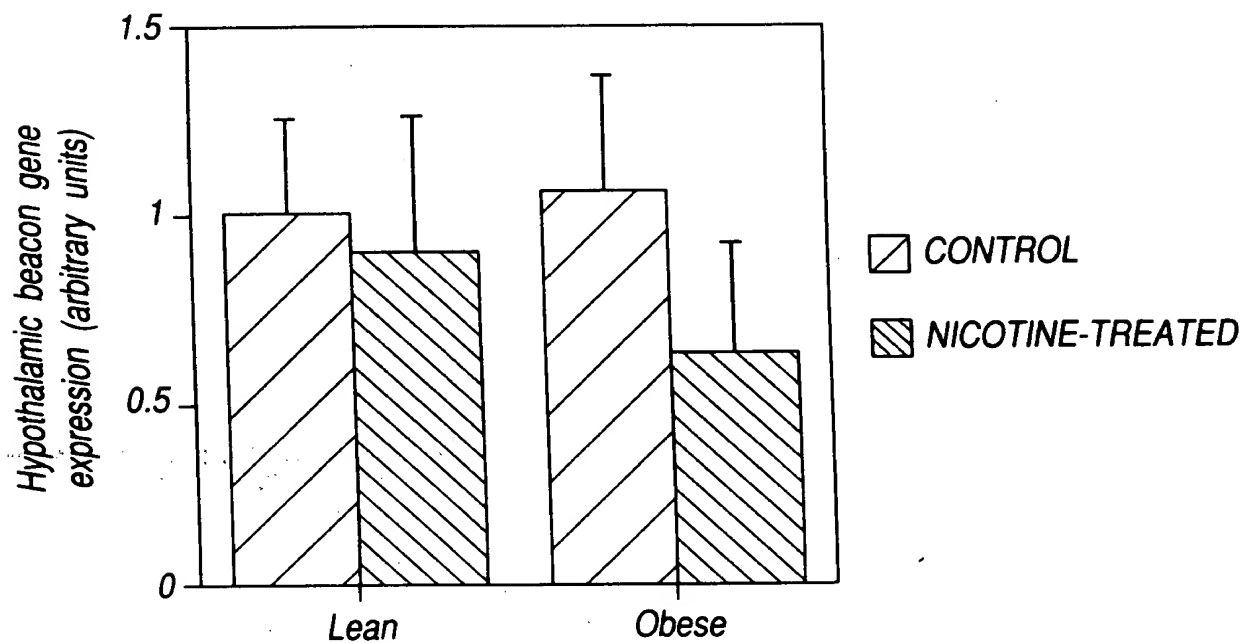


Fig. 8B

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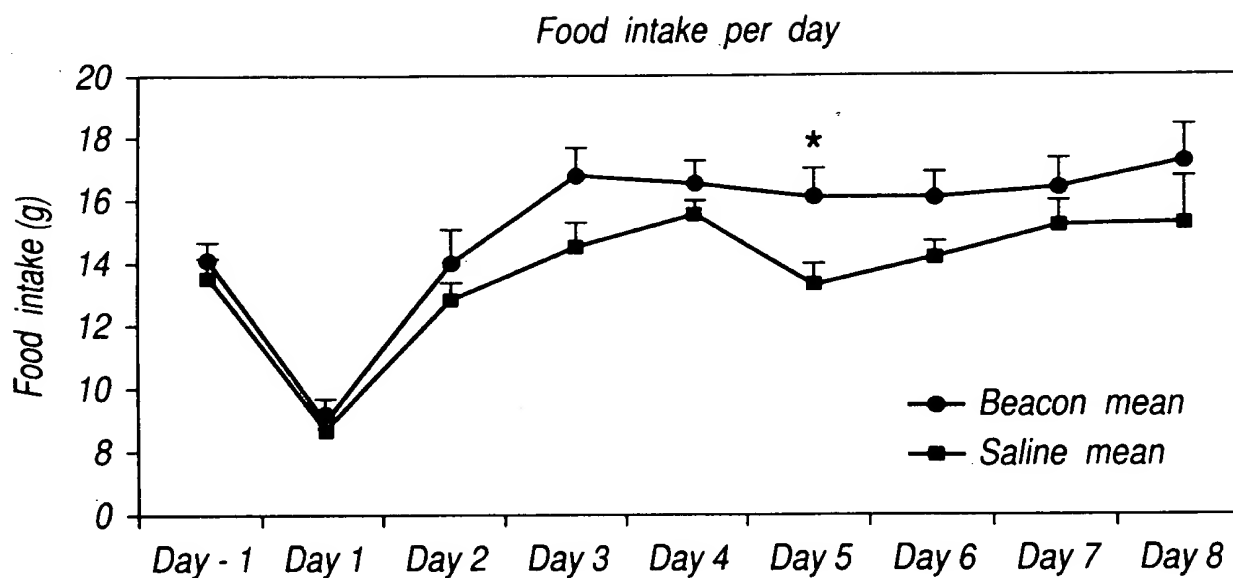


Fig.9A

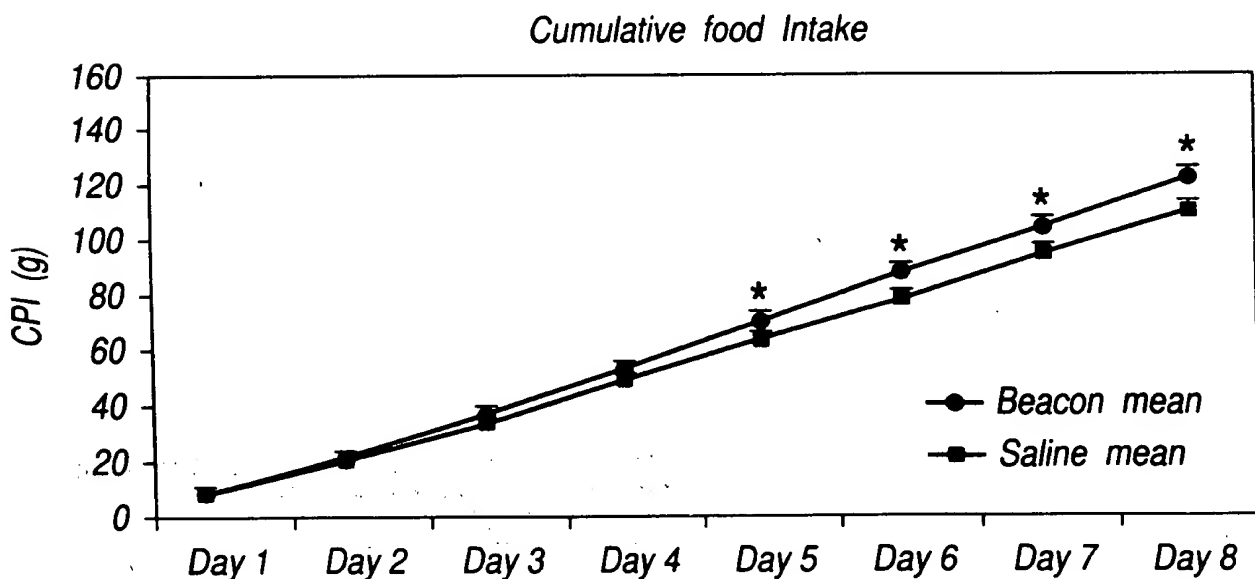

* = significant, $p < 0.05$

Fig.9B

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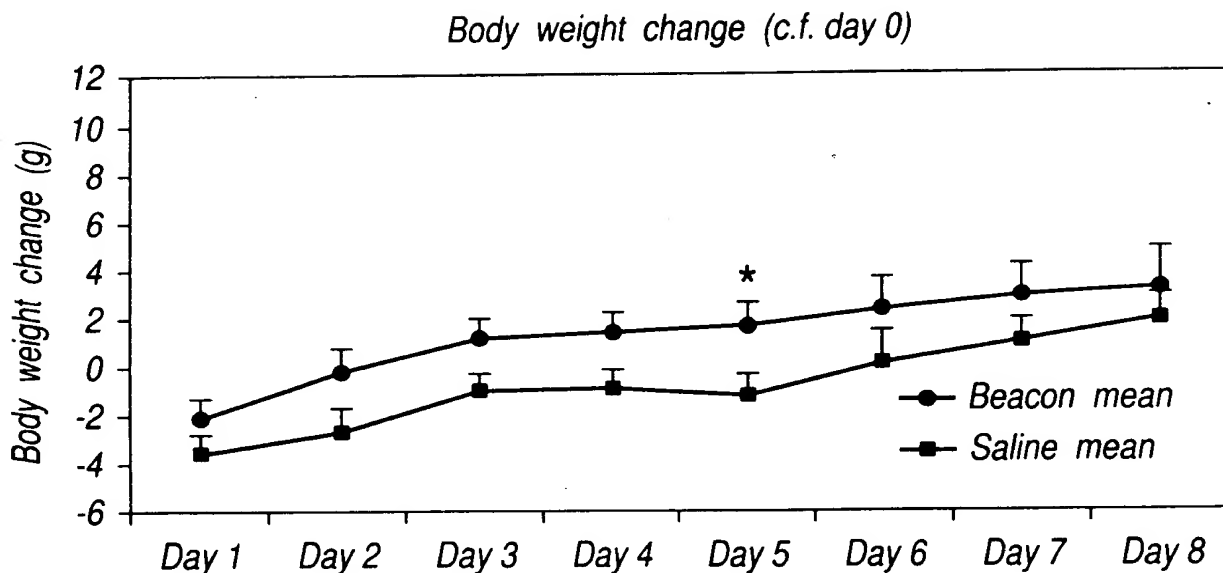


Fig.9C

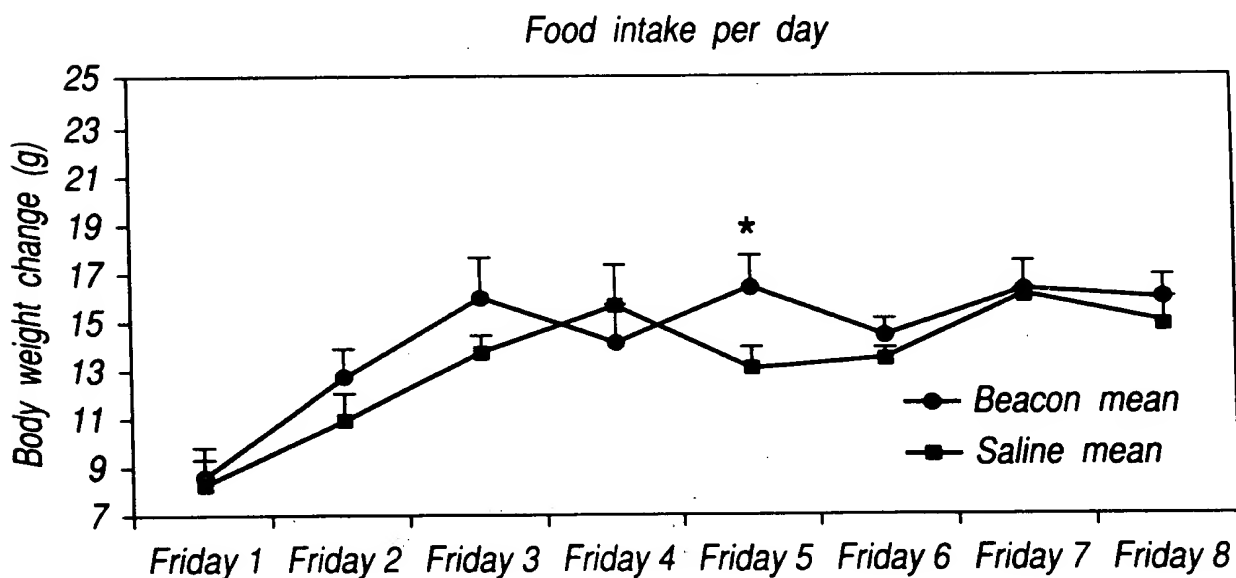


Fig. 10A

* = significant, $p < 0.05$

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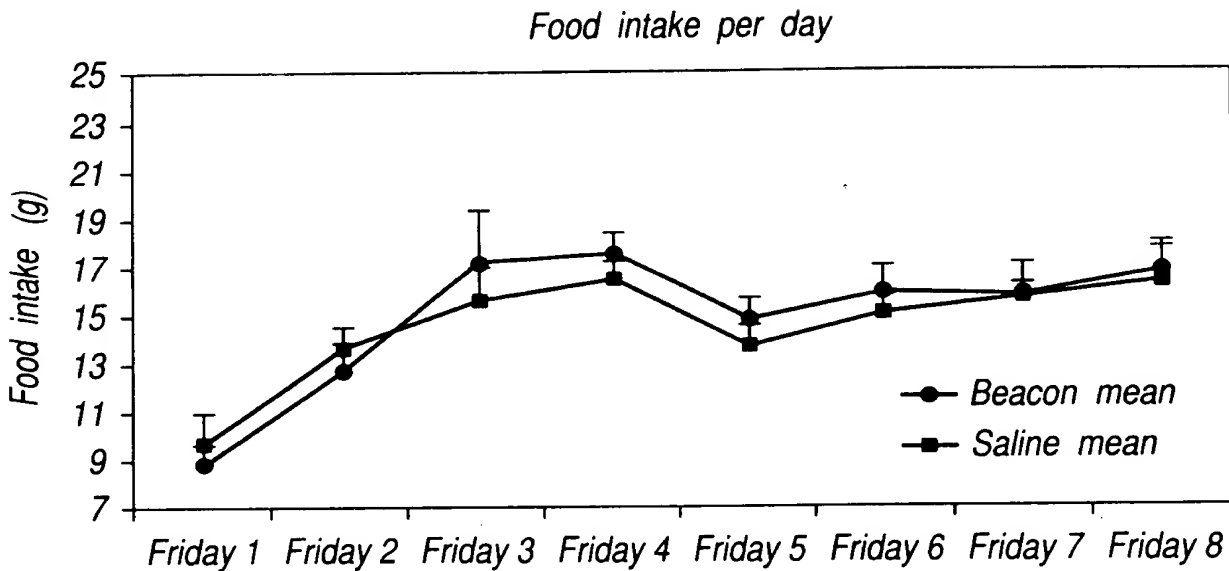


Fig.10B

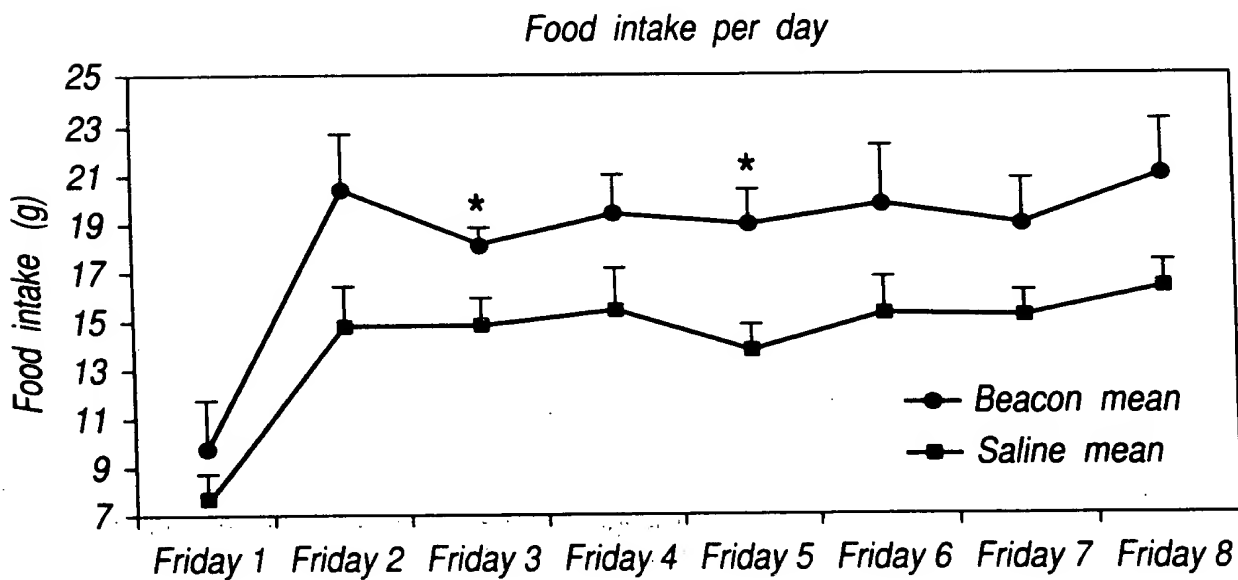


Fig.10C

* = significant, $p < 0.05$

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Cumulative food Intake

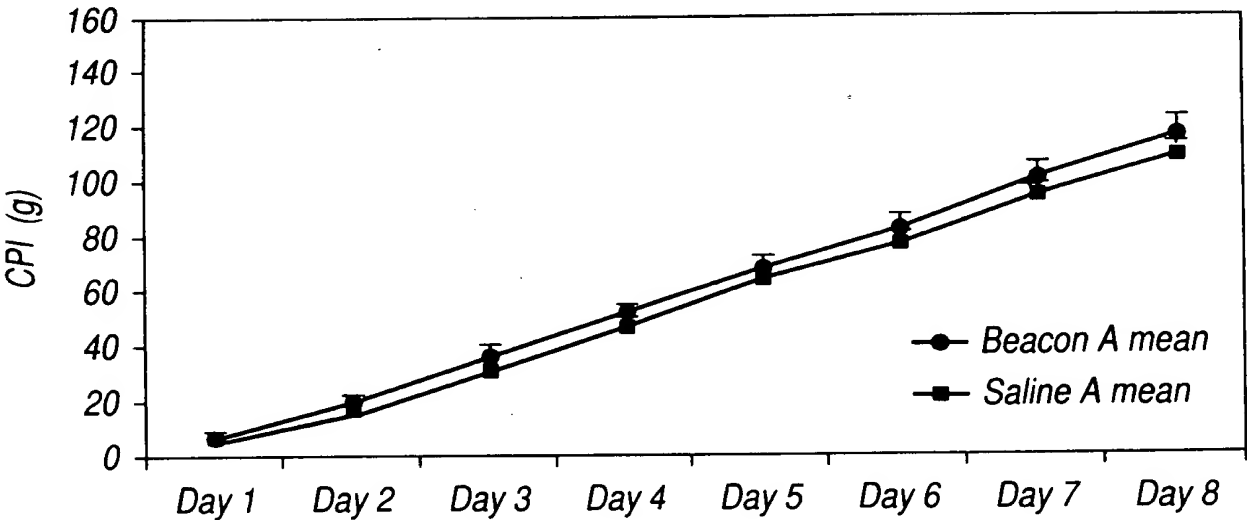
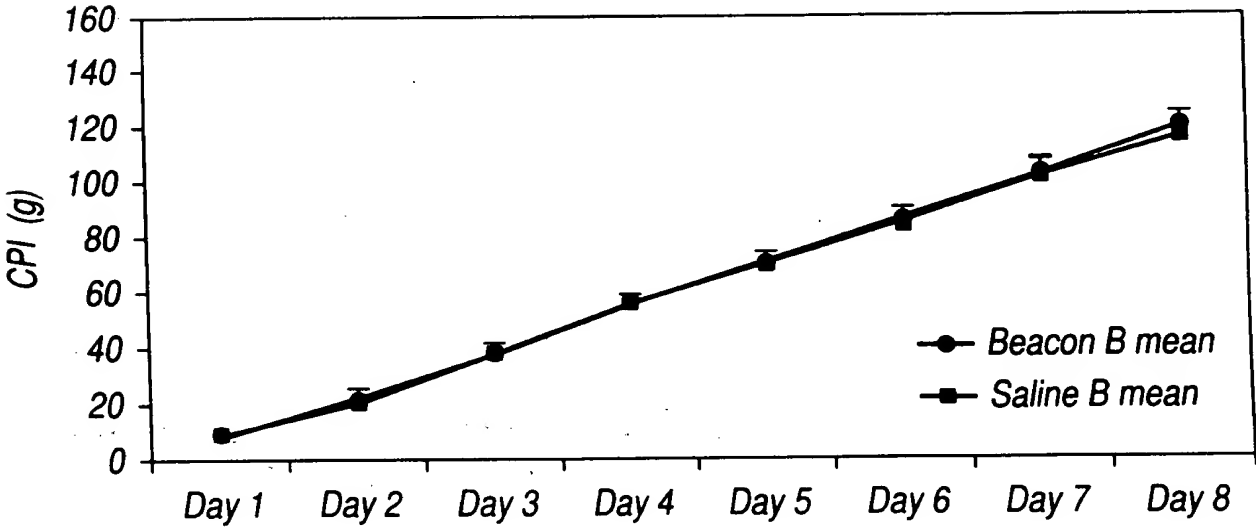


Fig.11A

Cumulative food Intake



* = significant, $p < 0.05$

Fig.11B

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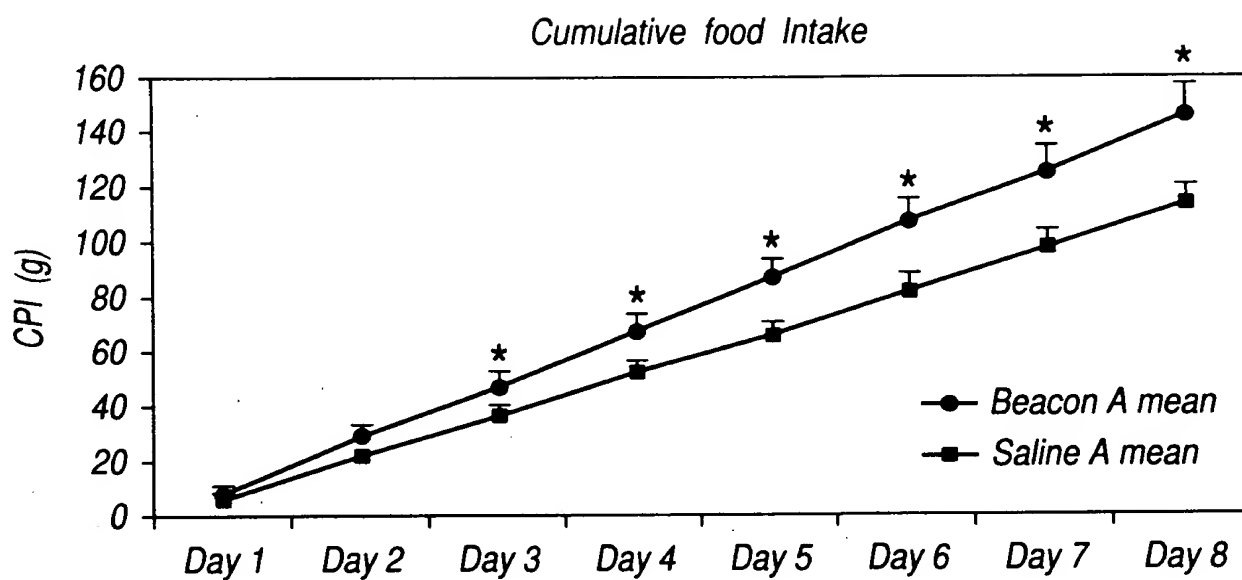


Fig.11C

APPROVED	O.G. FIG.	
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Beacon v. Body Weight and % Fat in Group A animals

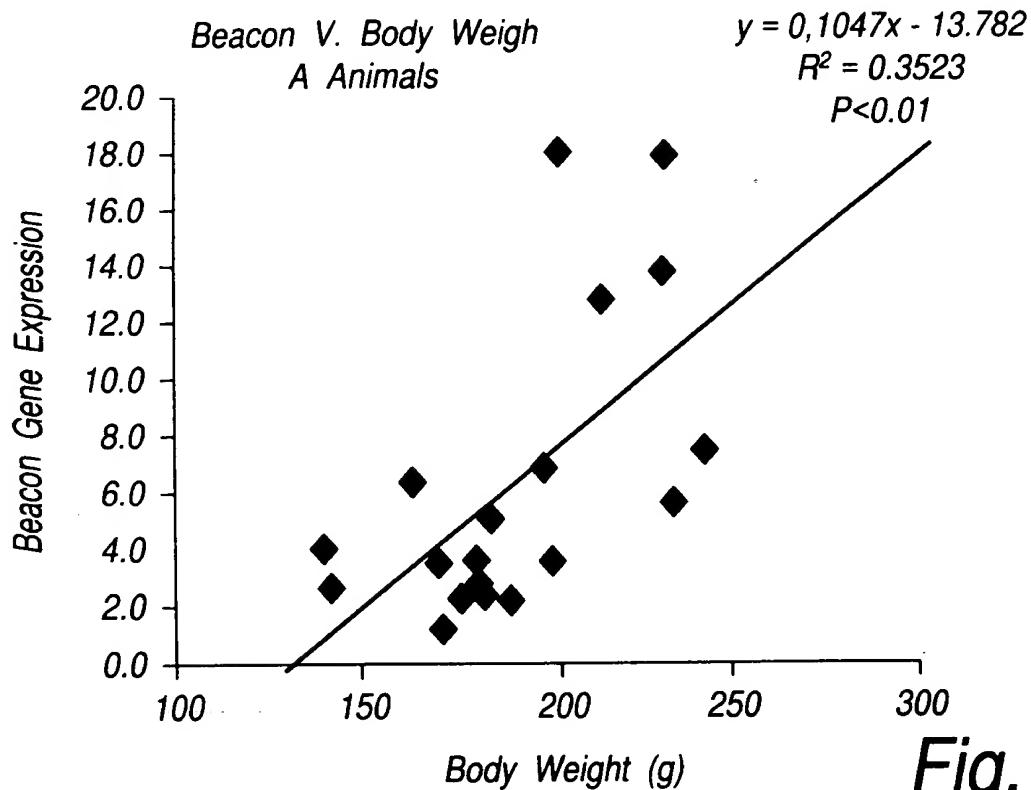


Fig.12A

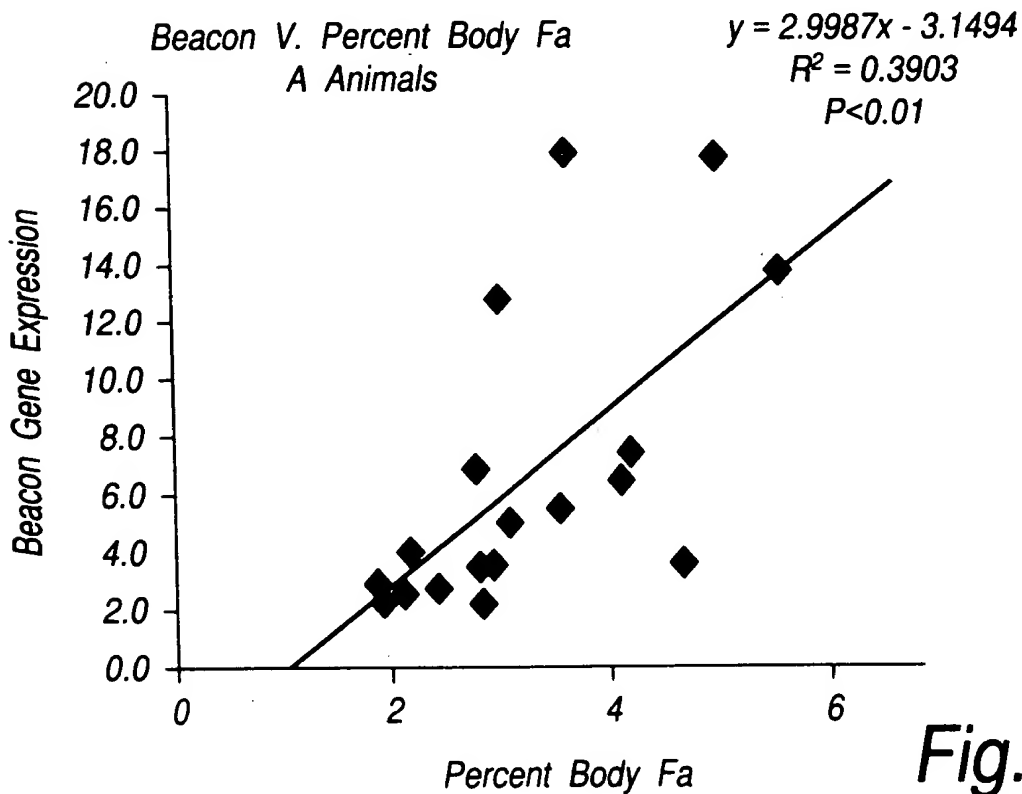


Fig.12B

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Beacon v. % Body Fat

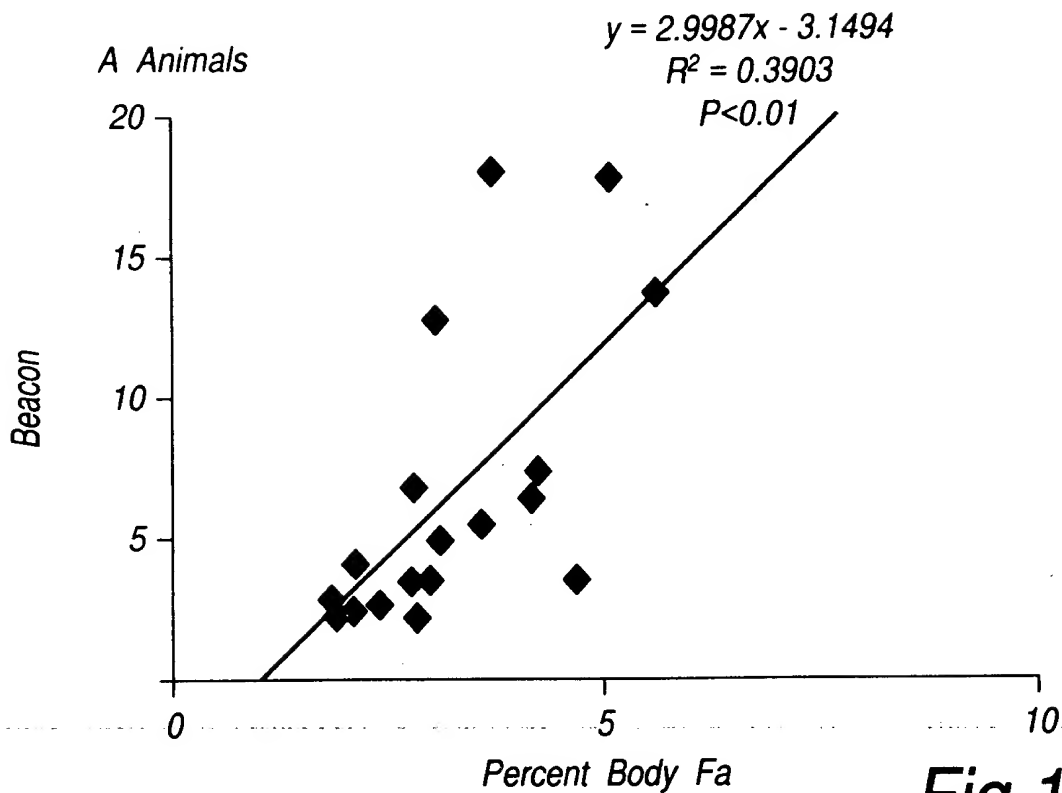


Fig. 13A

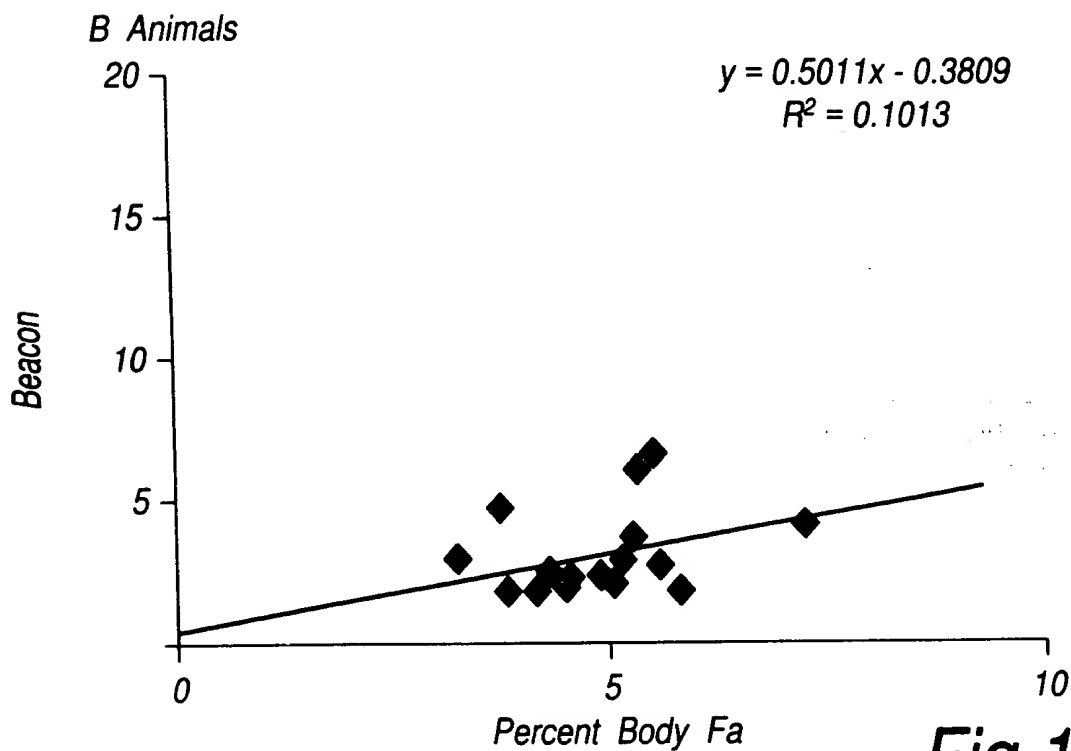


Fig. 13B